

Appendix A: WSDL Documents for Mobile Provisioning Service

The WSDL documents for the Mobile Provisioning Web Service are as follows:

<http://example.com/mobile/MobileProvisioning.xsd>

5 An XML schema for extending WSDL documents to define mobile applications.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<schema xmlns="http://www.w3.org/2001/XMLSchema">
```

```
  <element name="MobileApplication">
```

10 <complexType>

```
    <sequence>
```

```
      <element name="MobileAppVersion" minOccurs="1" maxOccurs="unbounded">
```

```
        <annotation>
```

```
        <documentation>
```

15 The description field is optional, but should be used if the mobile application has more than one version. It should help distinguish between the different versions of the same mobile application.

```
      </documentation>
```

```
    </annotation>
```

20 </complexType>

```
  <attribute name="id" type="integer" use="required"/>
```

```
  <attribute name="description" type="string" use="required"/>
```

```
  <attribute name="jadURL" type="anyURI" use="required"/>
```

```
<attribute name="jarURL" type="anyURI" use="required"/>
```

```
</complexType>
```

```
</element>
```

```
</sequence>
```

```
5 <attribute name="appname" type="string" />
```

```
</complexType>
```

```
</element>
```

```
</schema>
```

```
10 http://example.com/mobile/MobileProvisioning.wsdl
```

Abstract definitions associated with the Mobile Provisioning Web service.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<definitions name="MobileProvisioning"
```

```
15   targetNamespace="http://example.com/mobile/definitions"
```

```
   xmlns:tns="http://example.com/mobile/definitions"
```

```
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
```

```
   xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
```

```
   xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
```

```
20   xmlns:mobile="http://example.com/mobile/ schemas "
```

```
   xmlns="http://schemas.xmlsoap.org/wsdl/">
```

```
<import namespace="http://example.com/mobile/schemas"
```

location="http://example.com/mobile/MobileProvisioning.xsd"/>

<message name="downloadRequest">

<part name="arg0" type="xsd:string"/>

<part name="arg1" type="xsd:string"/>

5 <part name="arg2" type="xsd:string"/>

</message>

<message name="downloadResponse">

<part name="return" type="soapenc:Array"/>

</message>

10 <portType name="MobileProvisioningPortType">

<operation name="download">

<input message="tns:downloadRequest"/>

<output message="tns:downloadResponse"/>

</operation>

15 </portType>

</definitions>

http://example.com/mobile/MobileProvisioningService.wsdl

Specific service bindings associated with the Mobile Provisioning Web service.

20

<?xml version="1.0" encoding="UTF-8"?>

<definitions name="MobileProvisioning"

targetNamespace="http://example.com/mobile/service"

```
xmlns:tns="http://example.com/mobile/service"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
5  xmlns:defs="http://example.com/mobile/definitions"
    xmlns="http://schemas.xmlsoap.org/wsdl/">
```

```
<import namespace="http://example.com/mobile/definitions"
    location="http://example.com/mobile/MobileProvisioning.wsdl"/>
```

```
10 <binding name="MobileProvisioningSoapBinding"
    type="tns:MobileProvisioningPortType">
    <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>
    <operation name="download">
15     <soap:operation soapAction="" style="rpc"/>
    <input>
    <soap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://example.com/mobile/MobileProvisioning "
        use="encoded"/>
20 </input>
    <output>
    <soap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://example.com/mobile/MobileProvisioning "
```

```

        use="encoded"/>
    </output>
</operation>
</binding>
5    <service name="MobileProvisioning">
    <port binding="tns:MobileProvisioningSoapBinding"
        name="MobileProvisioningPort">
        <soap:address location="http://example.com/mobile/MobileProvisioning"/>
    </port>
10   </service>
    </definitions>

```

Appendix B: Extended WSDL Documents for Mobile Applications

The extended WSDL documents for the Mobile applications are as follows:

15 Note: the name of the mobile application to be wrapped as a web service is "Sample" mobile application.

1. Change the names of the WSDL files to Sample.wsdl and SampleService.wsdl (instead of MobileProvisioning.wsdl and MobileProvisioningService.wsdl, respectively).

2. The changes in Sample.wsdl are mentioned in **bold**:

```

20 <?xml version="1.0" encoding="UTF-8"?>
    <definitions name="Sample"
    ....>
    <import namespace="http://example.com/mobile/schemas"

```

```
location="http://example.com/mobile/MobileProvisioning.xsd"/>
```

```
<mobile:MobileApplication name="Sample">
```

```
5 <mobile:MobileAppVersion
```

```
id=1
```

```
description="PalmOS high screen resolutions"
```

```
jadURL="http://example.com/ibm/mobile/PPC.jad"
```

```
jarURL="http://example.com/ibm/mobile/PPC.jar"/>
```

```
10 <mobile:MobileAppVersion
```

```
id=2
```

```
description="PalmOS low screen resolutions"
```

```
jadURL="http://example.com/ibm/mobile/PPC1.jad"
```

```
15 jarURL="http://example.com/ibm/mobile/PPC1.jar"/>
```

```
</mobile:MobileApplication>
```

```
<message name="downloadRequest">
```

```
20 ....
```

The information about the Sample mobile application includes two versions of the application: The first one is for Palm-OS devices with low screen resolutions. The second one is also for Palm-OS devices, but is for devices with high screen resolutions. The descriptions

of each one of the versions can be found in the appropriate JAD files (which their locations is given).

3. The name of the Web service is changed, as is reference to MobileProvisioning.wsdl in SampleService.wsdl document. Assume that the location of Sample.wsdl is
5 http://example.com/ibm/mobile/Sample.wsdl.

The changes in SampleService.wsdl are mentioned in bold:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<definitions name="Sample"
```

```
....>
```

```
<import namespace="http://example.com/mobile/definitions"
```

```
location="http://example.com/ibm/mobile/Sample.wsdl"/>
```

```
....
```

It is noted that other mechanisms of XML, such as Processing Instructions, may also be
15 used to extend the WSDL documents to contain information about a mobile application.